

THE INSTITUTION OF PRODUCTION ENGINEERS, 10 CHESTERFIELD STREET, MAYFAIR, LONDON, W.1

TWO-DAY MEETING, LONDON, SPRING, 1962

"DESIGN FOR AUTOMATED PRODUCTION"

(Product, Tool and Method)

A Two-Day Meeting, to be held in London in the Spring of 1962, is being planned by the Institution, on the above theme.

It is intended that Papers at this Meeting will cover design aspects of product and tool for advanced and automated methods of production, and that the final session will take the form of an open discussion in which the speakers will take part.

Members of the Institution who would like to offer Papers for presentation and discussion at this Meeting are invited to submit titles and synopses (500 words) to the Papers Committee for consideration by not later than 14th June, 1961. Correspondence should be addressed to:

The Secretary,
The Papers Committee,
10 Chesterfield Street,
Mayfair, London, W.1.

THE 1960 GEORGE BRAY MEMORIAL LECTURE

Members are informed that The 1960 George Bray Memorial Lecture will be presented to the Institution, on Wednesday, 26th April, 1961, at 4.15 p.m., in the Pillar Hall, Olympia during the Engineering, Marine, Welding and Nuclear Energy Exhibition. On this day the Council of the Institution will be making an official visit to the Exhibition.

The speaker will be Mr. H. Silman, B.Sc., F.R.I.C., M.I.Chem.E., F.I.M., Past President of The Institute of Metal Finishing and a Director of Electro-Chemical Engineering Co. Ltd., and his subject is:

"THE PROTECTIVE TREATMENT OF METALS AGAINST CORROSION"

The President of the Institution, Mr. G. Ronald Pryor, will be in the Chair.

N.B. All tickets for this meeting have now been distributed.

THE 1961 VISCOUNT NUFFIELD PAPER

Members are informed that The 1961 Viscount Nuffield Paper will be presented at **The University of Bristol**, on **Wednesday, 14th June, 1961**, at **6.30 p.m.** The speaker will be **Sir Willis Jackson**, Director of Research and Education, A.E.I. (Manchester) Ltd., on the subject:

"SOME HUMAN ASPECTS OF ENGINEERING PROGRESS"

The President of the Institution, **Mr. G. Ronald Pryor**, will be in the Chair.

Tickets of admission to the meeting, which is open to members and non-members of the Institution, may be obtained, free of charge, on application to the Secretary of the Institution, or by completing and returning the form below.

WALES REGION CONFERENCE, MAY, 1961

A One-Day Conference, organised by the Wales Region of the Institution, will be held on **Friday, 5th May, 1961**, at **The South Wales Institute of Engineers, Park Place, Cardiff**. The Conference theme will be:

"THE CONSERVATION OF MATERIALS"

The principal guest will be The Rt. Hon. Lord Sempill, A.F.C., Hon.M.I.Prod.E., and the speakers will be **Mr. Arthur Turner**, Manufacturing Manager, Metco Ltd., **Dr. C. Wilson**, A.R.S.M., D.I.C., and **Mr. Basil Dyson**, M.I.Mech.E., M.I.Prod.E., Consultant, formerly of Hoover Ltd.

Conference fees are:

Members of the Institution	...	...	...	...	£2 2 0
Non-members	...	...	...	...	£2 12 6
Full-time students at technical colleges	...	...	...	...	15 0

All enquiries should be addressed to: **The Hon. Regional Secretary, Mr. A. E. Haynes**, at **A.B. Metal Products Ltd., Abercynon, Glamorgan**.

To: **The Secretary,**
The Institution of Production Engineers,
10 Chesterfield Street,
Mayfair, London, W.1.

THE 1961 VISCOUNT NUFFIELD PAPER

The University of Bristol, 14th June, 1961, at 6.30 p.m.

Please send me, when available.....ticket(s) of admission to the above meeting.

NAME.....

ADDRESS.....

.....

.....

Please Use Block Letters

**NORTH
MIDLANDS
REGIONAL
CONFERENCE
•
SATURDAY
22nd APRIL
1961
•**

*Organised by the
Peterborough
Section of The
Institution of
Production
Engineers*

"The Human Element and Productivity"

Venue: A.E.I.-HOTPOINT LTD., PETERBOROUGH

PROVISIONAL PROGRAMME

MORNING (DELEGATES AND LADIES)

- 9.30 a.m. Assemble — Coffee.
10.00 a.m. Civic Welcome.
10.15 a.m. Programme to be finalised will include visits to the following Works:
(a) A.E.I.-Hotpoint Ltd.
(b) The Newall Engineering Co. Ltd.
(c) Baker Perkins Ltd.
(d) F. Perkins Ltd.
(e) Peter Brotherhood Ltd.
with the alternative of films of local industries.
12.30 p.m. Assemble for lunch.

AFTERNOON (DELEGATES)

- 2.30 p.m. **PLENARY SESSIONS**
Chairman: Mr. G. Ronald Pryor,
President of The Institution
of Production Engineers.
Speakers: Sir John Benstead, C.B.E.,
Member of The Institute of Transport;
Deputy Chairman of
The British Transport Commission.
Mr. F. Limb, M.I.Prod.E., C.G.I.A.,
Works Director, Ericsson Telephones Ltd.
4.00 p.m. Break.
4.15 p.m. Questions and discussion.
5.30 p.m. Join ladies for buffet tea.

AFTERNOON (LADIES)

- 2.30 p.m. Programme to be finalised.
5.30 p.m. Join delegates for buffet tea.

CONFERENCE FEE

Delegates and their ladies 25s. 0d. each.
The programme is a full and comprehensive one and all local transport arrangements and refreshments are included in the fee.

REGISTRATION

Those interested in attending this Conference should make application to the **Joint Conference Hon. Secretary, Mr. D. A. Hill, 11 The Glen, Old Fletton, Peterborough.**

"PRACTICAL TRAINING IN PRODUCTION ENGINEERING"

The Institution is now issuing to Training Officers in Industry, to Principals of Technical Colleges, and to others interested in apprentice training, copies of a new booklet entitled:

"PRACTICAL TRAINING IN PRODUCTION ENGINEERING"

which has been prepared by the Institution's Committee on Practical Training.

It is hoped that with the co-operation of Industrial Training Officers, the heads of smaller firms, and the organisers of Group Apprentice Training Schemes, it may eventually be possible to have training schemes approved as fully meeting the Institution's needs in much the same way that certain academic qualifications carry exemption from the Institution's membership examination.

Copies of the booklet, free of charge, may be obtained from the Headquarters of the Institution, at 10 Chesterfield Street, Mayfair, London, W.1.

MIDLANDS REGION SEVENTH ANNUAL DINNER

The Seventh Annual Dinner of the Midlands Region will take place at the **Queen's Hotel, Birmingham**, on **Friday, 14th April, 1961**, at **6.45 p.m.** for **7.15 p.m.**

The principal guests will be **The Right Worshipful the Lord Mayor of Birmingham**, Alderman Garnet B. Boughton, J.P.; Principal **A. J. Murphy**, M.Sc., F.I.M., F.R.Ae.S., Principal. The College of Aeronautics, Cranfield; and **Mr. P. Middlemas**, President of the Birmingham Chamber of Commerce.

Application for tickets (price £2 2s. 0d. each; Graduates £1 12s. 0d.) should be made to **Mr. E. Percy Edwards**, 111 New Street, Birmingham, 2. (Telephone: Midland 2406). Cheques should be made payable to "The Institution of Production Engineers" and crossed "Social Account".

READING SECTION ANNUAL DINNER

The Annual Dinner of the Reading Section will take place at the **Butt Inn, Aldermaston**, on **Friday, 14th April, 1961**, at **7.45 p.m.** for **8.15 p.m.**

Applications for tickets, price £1 10s. 0d. each exclusive of wines, should be made not later than **16th March**, to the Section Hon. Secretary, **Mr. P. J. Smallbone**, "Maryfield," Darlington Road, Basingstoke, Hants. enclosing remittance made payable to "P. J. Smallbone".

Members may bring friends, but it should be noted that this is an all-male function.

SECTION MEETINGS

Visitors' Tickets may be obtained from Section Honorary Secretaries

APRIL, 1961

EAST & WEST RIDINGS REGION

Leeds Graduate 7 p.m. April 19
Works Visit to City Sewage Department, Esholt Park, Bradford.
Rendezvous: Esholt Park.

MIDLANDS REGION

REGIONAL 6.45 p.m. for 7.15 p.m. April 14
The Queens Hotel, Birmingham.
Midlands Region Dinner.
Tickets: Members, 42s. each; Graduates, 32s. each.
Evening Dress with Decorations, or Dinner Jackets.

Birmingham 7 p.m. April 19
The James Watt Memorial Institute, Birmingham.
"International Competition in Machine Tool Design and Production" by Robert Asquith, M.I.Prod.E.
Cash Bar for refreshments at the conclusion of the meeting.

Coventry 7.15 p.m. April 11
The Grosvenor Room, Leofric Hotel, Coventry.
"Does Automation Restrict Design?"
A joint Discussion meeting with The Institution of Mechanical Engineers, Automobile Division, Coventry Section.
The Chair will be taken by William Core, M.I.Prod.E., of The Institution of Production Engineers, Coventry Section.

Coventry Graduate 7 p.m. April 20
Reception Hall in the Canteen Block, adjacent to No. 2. Gatehouse, Massey-Ferguson Tractors Ltd., Fletchamstead Highway, Coventry.
"Control of Quality" by J. Bryan Cross (Quality Control Manager), Massey-Ferguson Tractors Ltd., Coventry.
Numbers will be limited; please apply to the Secretary for tickets.

Wolverhampton Graduate 7 p.m. April 19
Wolverhampton and Staffs. College of Technology, Wulfruna Street, Wolverhampton.
"Marketing Research and Follow-up of Sales Techniques" by A. H. J. Hall, assisted by J. H. Kassell.

Wolverhampton Graduate Afternoon, April 20
Works Visit to Turner Bros. (Birmingham) Ltd., Birmingham.

NORTH MIDLANDS REGION

Lincoln 7.30 p.m. April 27
Ruston Club, Lincoln.
"Some Aspects of Production Engineering" by L. R. Mumford, A.M.I.Prod.E.

Nottingham 10.30 a.m. April 12
Works Visit to Yorkshire Imperial Metals Ltd., Stourton, near Leeds.

Peterborough 7.30 p.m. April 19
Conference Room, Peterscourt, Peterborough.
Film Evening.

NORTH WESTERN REGION

Liverpool 7.30 p.m. April 12
The Exchange Hotel, Tithebarn Street, Liverpool, 1.
"New Materials in Industry — 'Plastics'" by E. M. Elliott, A.M.I.E.E., A.M.I.Prod.E.

Liverpool Graduate 7.30 p.m. April 6
Stork Hotel, Queens Square, Liverpool, 1.
"Principles of Materials Handling" by L. J. Hoefkins, A.I.Prod.E.

NORTHERN IRELAND REGION

Northern Ireland 7.30 p.m. April 13
Kensington Hotel, Belfast.
"Englishmen and Ulstermen at Work" by W. C. Hurst, B.A., A.M.B.I.M., Grad.I.P.M.

SOUTH EASTERN REGION

London 7 p.m. April 20
The Royal Commonwealth Society, London.
"Manipulation of Time and Light" by Dr. B. Stanford, M.R.C.S., D.M.R., F.R.P.S. (Some recent advances in Industrial Applications of Photography.)
Preceded by the Annual General Meeting.

London Graduate 7.15 p.m. April 18
10 Chesterfield Street, Mayfair, London, W.1.
Lecturettes by Graduate Members.

London Graduate 9.30 a.m. April 13
Works Visit to Albert E. Reed & Co. Ltd., Aylesford Paper Mills, Larkfield, near Maidstone, Kent.
Rendezvous: 9.30 a.m. at Jubilee Hall, for coffee and introductory talk.
Works tour — 10.15 a.m. until 12.30 p.m.
Lunch at Jubilee Hall at 1 p.m.

South Essex 7.30 p.m. April 12
Ilford Conservative Club, 42 High Road, Ilford.
"Chemical and Electrolytic Surface Finishes" by D. Read, of The Plessey Co. Ltd.

SOUTH WESTERN REGION

Western Graduate 7.30 p.m. April 13
The Large Lecture Theatre, University Walk, University of Bristol.
"Marketing the Mass Produced Car" by C. N. Edmunds, Sales Manager, M.G. Car Co.
Two films of car testing and racing will be shown.

Production Appointments

BULLETIN No. 91 APRIL, 1961

The last date for receiving material for insertion in the following month's bulletin is the 20th of each month, and cancellations cannot be accepted after this date. Correspondence should be addressed to: The Publications Department, The Institution of Production Engineers, 10 Chesterfield Street, Mayfair, London, W.1 (Telephone: GROsvenor 5254).

RATES — Run-on, per appointment: £4 4s. 0d. up to 100 words; £1 1s. 0d. for each additional 100 words or part thereof. Special rate for firms affiliated to the Institution, technical colleges and universities: £2 2s. 0d. per appointment up to 100 words, and 10s. 6d. for each additional 100 words or part thereof.

Displayed: £6 per single-column inch (column width $3\frac{1}{4}$ in.). Special rate for firms affiliated to the Institution, technical colleges and universities: £5 10s. 0d. per single-column inch. Agency discount on displayed advertisements 10%.

Advertisers are advised that better response is likely if, in addition to essential qualifications, the following information is given:

(a) Location of appointment; (b) Status in the organisation and scope of promotion; (c) Salary range and age range. Advertisers are asked to advise the Institution when appointments are filled. The Institution reserves the right to refuse or withdraw any announcement and also to make any alteration in the wording to ensure conformity with the Institution standards. *Members interested in the following appointments should make application in accordance with the terms of notice. No correspondence can be undertaken by the Secretary other than the forwarding of replies to Box Nos.*



(A member of the Hawker Siddeley Group)

SENIOR METHODS ENGINEERS

MACHINE SHOPS

A Senior Methods Engineer is required to deal with machine shops engaged in the manufacture of medium/heavy electrical machinery. Applicants should be conversant with all types of machine tools and must be capable of suggesting changes of method to achieve cost reduction in machine shop operation.

HEAVY FABRICATION

A Senior Methods Engineer is required to deal with departments engaged in the fabrication of components for medium/heavy electrical machinery. Applicants should be conversant with modern welding methods and must be capable of suggesting changes of method to achieve cost reduction in fabrication department operation.

The Company is situated on the outskirts of a small town, amid the pleasant Leicestershire countryside away from the smoky industrial environment. Schooling facilities are good for all grades of education, including advanced studies at technical colleges and universities in the district. In appropriate cases assistance with housing and removal expenses can be considered.

Applications, WHICH WILL BE TREATED IN THE STRICTEST CONFIDENCE, should give details of experience and qualifications and be addressed to:

Mr. A. Garner,

BRUSH ELECTRICAL ENGINEERING CO. LTD.,

Loughborough, Leicestershire, quoting reference PL.

MSL

have been retained to advise
on the appointment of

GROUP PRODUCTION ENGINEER

for a West Midlands group producing light precision engineering products.

He will be responsible to the Chairman for the co-ordination of production methods and advice on them, and for ensuring that the engineering staffs know and use modern manufacturing techniques.

He must have varied and up-to-date experience of machine tools and production methods in light mass production engineering. Some work in the automotive industry and in foundries would be an advantage: a mechanical engineering degree or A.M.I.Mech.E. is essential: age 35 to 50: salary £2,500 to £3,000. Please send brief details in confidence quoting reference HH.2563 to P. Hook.

MANAGEMENT SELECTION LIMITED.

17 Stratton Street, London, W.1.

In no circumstances will a candidate's identity be disclosed to our client unless he gives permission after a confidential interview at which he will be given full details of the appointment.

PLANNING/PRODUCTION ENGINEER

Planning and Production Engineer required by expanding Engineering Company situated in Leicester and the East Coast region. Offers excellent opportunity for young man with initiative and good engineering background. Minimum technical qualifications of National Certificate in Mechanical or Production Engineering plus sound engineering apprenticeship; subsequent work to have included jig and tool design, together with planning experience; a knowledge of work study an advantage.

Applications stating qualifications, experience, age and present salary to:

**THE WORKS DIRECTOR,
C. S. MARTIN LTD.,
41 SANVEY GATE, LEICESTER.**

PRODUCTION CONTROLLER. — Midlands factory of a large group manufacturing aircraft controls and precision equipment requires first-class **PRODUCTION CONTROLLER**. Applicants must have served a recognised engineering apprenticeship and be qualified to at least Associate Member level in a major Engineering Institution. Several years varied practical experience in precision light engineering, preferably instrumentation, essential. Present salary must be £1,750 p.a. minimum. Age limits 33-40. Previous experience in works organisation and management desirable, since ultimate promotion to Works Manager within five years is envisaged. This is a superannuated Senior Staff appointment and housing assistance will be possible after satisfactory probationary period. Write in first instance to:

Box No. P.C. 4657, A. K. Advtg., 212a Shaftesbury Avenue, London, W.C.2.

MACHINE SHOP MANAGER

Applications are invited for Sheffield Precision Engineering Department, approximately 150 employees. Desirable qualifications:

- Recognised engineering apprenticeship.
- Managerial background.
- Knowledge of modern production control techniques and ability to plan and organise for additional production.
- Membership of Institution of Production Engineers and/or Mechanical Engineers, Engineering degree.

Salary commensurate with qualifications, ability and experience.

Contributory superannuation scheme.

Write: Box No. 2038, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

ROOTES GROUP

Export Division, London, have a vacancy for a

SENIOR APPOINTMENT

in connection with their

OVERSEAS MANUFACTURING AND ASSEMBLY DEVELOPMENTS

Applicants for this position should have a technical background, preferably in the Motor Industry, and knowledge of the commercial aspects of developing companies overseas.

Attractive salary, working conditions and pension are offered; also opportunities for advancement and travel.

Applications, which will be treated in strictest confidence, should include full details and recent photograph (returnable) and be forwarded to:

Group Staff Officer, Rootes Limited, Devonshire House, Piccadilly, London, W.1.



CHIEF INSPECTOR

A vacancy arises at Leamington Spa for a Chief Inspector/Quality Engineer for a Division consisting of a large Automatics Shop and comprehensive Plating and Heat Treatment Departments.

Applications are invited from engineers, aged 30-45 and educated to H.N.C. standard, who have a thorough knowledge of modern quality control techniques.

A good salary will be paid and the Companies operate excellent Pension and Profit Sharing schemes.

Applications, giving full details, including present salary, should be addressed to:

Group Personnel Manager,
LOCKHEED HYDRAULIC BRAKE CO. LTD.,
AND ASSOCIATED COMPANIES,
Tachbrook Road, Leamington Spa,
Warwickshire.

Experimental Officer or Assistant Experimental Officer. D.S.I.R. requires unestablished Experimental Officer or Assistant Experimental Officer at Cornwall Terrace, London, N.W.1, to be trained for investigations in industrial and commercial fields with view to improving efficiency. Qualifications: Pass degree, H.N.C. or equivalent in science or engineering subject expected, preferably with experience in technical management and to have completed studies for B.I.M./M.O.E. Diploma in Management Studies. Ability to present reports in workmanlike style essential; lecturing experience useful. Be prepared to travel within U.K. Salary range: Inner London rates, E.O. £1,147 - £1,396; A.E.O. £747 (age 23) - £856 (age 26) - £1,038. Appointment one year in first instance. Forms from the Ministry of Labour, Technical and Scientific Register (K), 26 King Street, London, S.W.1, quoting Ref. A67/1A.

METHODS ENGINEER

We are looking for a competent and experienced Methods Engineer, aged 25 upwards, to fill a new vacancy in our Methods and Rates Department.

The position offers considerable scope for carrying through complete projects involving machining, assembly and process operations and also associated materials handling problems. There are good career prospects and conditions of service in an expanding Company employing 1,500 people.

Applications giving details of age, experience, qualifications and current salary should be sent to:

The Personnel Manager,
THE MICANITE & INSULATORS CO. LTD.,
Empire Works, Blackhorse Lane,
Walthamstow, London, E.17.

There is a vacancy for a DEVELOPMENT ENGINEER in our PRODUCTION ENGINEERING DEPARTMENT

We are looking for a man of initiative, capable of original creative ideas, whose duties will be to investigate existing methods of production with a view to reducing costs and to design (schematically) and develop new equipment to achieve this aim. Age 24-36, with at least H.N.C. Mech. or Prod. Engineering. Indentured apprentice or similar might suit. Design and development experience of prototype special purpose equipment desirable. Experience of pneumatic or hydraulic circuitry an advantage.

Apply quoting reference AL/45 to:
THE STAFF MANAGER,
THE MORGAN CRUCIBLE CO. LTD.,
BATTERSEA CHURCH ROAD, S.W.11.

PRODUCTION ENGINEER

Preferably under 30. A.M.I.Prod.E., or Graduate. Versed in modern work study methods. Initially to prepare timed process plans for the manufacture of small batch quantities of medium engineering products. A knowledge of machine tools and handling equipment an advantage.

Salary will be fixed according to qualifications and experience but will not be below £900 per annum.

Please reply to:
PERSONNEL OFFICER,
HIGH PRECISION EQUIPMENT LIMITED,
DENBIGH ROAD, BLETCHLEY, BUCKS.

THE METAL BOX COMPANY LIMITED

have vacancies in their
TECHNICAL ENGINEERING DIVISION
for the following personnel

Design Engineers

For interesting and varied work which includes initial design of plant and machinery for use in the packaging industry. Qualifications: a thorough theoretical and practical training in mechanical engineering together with previous experience on project design and development.

Senior and Junior Mechanical Draughtsmen

To work on the design of special purpose machinery for plastic and metal container production. Experience in these fields is desirable but not essential. Applicants should be capable of original thinking and of using their own initiative.

Electrical Draughtsmen

Preferably with several years experience on electro mechanical details and/or electrical or electronics circuitry.

These posts offer

Long Term Progressive Careers

and rewarding opportunities for self-expression in a

COMPANY OF INTERNATIONAL AUTHORITY AND LEADERSHIP

Excellent conditions of employment. Please apply in writing in first instance to the PERSONNEL OFFICER, THE METAL BOX CO LTD., TECHNICAL ENGINEERING DIVISION, CHANDOS ROAD, LONDON, N.W.10.

ASSISTANT WORKS MANAGER

A new appointment is to be made for a man to assist the present Works Manager of a Company in the South London area engaged in small batch production of electronic equipment.

It is essential that applicants should have had experience in general machine shop practice, assembly and modern wiring techniques. A good educational standard and experience of controlling works' personnel is also required.

Good prospects of early advancement are available to the successful applicant who, it is felt, should be in the region of 45 years of age to have had the necessary experience required for this post.

Write: **Box 2037, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.**

Production Engineer—Senior Executive. Applications are invited for this responsible technical position. The successful applicant must have held a similar post with a knowledge of heavy press tooling and experience of Work Study and Cost Reduction, as he will be required to take full control of these functions. Write stating age, education, training, full experience and salary required to: The Personnel Manager, The Pyrene Co. Ltd., Great West Road, Brentford, Middlesex. All applications will be treated in the strictest confidence.

Immediate vacancies exist for:

(A) JIG & TOOL DRAUGHTSMAN

(B) PLANNING ENGINEERS

with an expanding and enterprising light engineering company covering a wide range of new products. Applicants should have served a recognised engineering apprenticeship and hold a minimum of O.N.C. or equivalent qualification. Applicants for (A) should have at least three years' Jig and Tool Design experience and for (B) be experienced in deciding production methods and preparing operational layouts. These vacancies will interest young men wishing to widen their experience and to work on their own initiative.

Salaries will be commensurate with age and experience.

Applications, which will be treated in strict confidence should give full particulars of training, experience and qualifications and be addressed to:

**THE PERSONNEL MANAGER,
TROJAN LTD.
TROJAN WORKS,
PURLEY WAY, CROYDON.**

THE METAL BOX COMPANY LIMITED

Chief Instructor – Mechanical Engineering

is required by the Metal Box Company for an Apprentice Training Centre in West London. Experience needed in machine tools and bench work, and also discipline and administration preferably gained in youth instruction fields.

Age 30 - 55

Applications to Head of Staff Division,

**The Metal Box Company Limited,
37 Baker Street, London, W.1,
quoting reference OTT/3.**

Draughtsmen required for design and detail work on one or more of the following: Special purpose machine design, jig and tool design, press tools or mechanical handling equipment. Five-day week, pleasant office conditions, salary in excess of A.E.S.D. rates. Apply in writing to: Revill Designs Ltd., 5 Fenchurch Street, London, E.C.3.

Designer—Senior Mechanical, required for machine tool factory on South Coast. Work involved embraces special purpose precision machine tools and general mechanical design. Applicants should have suitably high technical qualifications and be prepared to take responsibility of sponsoring designs through to manufacture. Monthly staff position. B. O. Morris Ltd., Albion Works, 465 Commercial Road, Portsmouth.

AEI

Associated Electrical Industries Ltd.
require
ENGINEERS

for their manufacturing organisation in Trafford Park. Methods Engineers, Development Engineers, Production Planning Engineers are examples of the posts available. They are all staff positions, qualifying for the Company's pension scheme, and offer good opportunities to men between the ages of 23 and 35.

Qualifications: A Degree in Mechanical or Electrical Engineering, or alternatively graduate membership of the I.Mech.E., I.E.E., or I.Prod.E. obtained through H.N.C. or other qualifications.

Engineers who possess either of these qualifications, and who are prepared to tackle the complex technical problems involved in manufacture are invited to send brief details of their career, and the type of post in which they are interested to:

**The Personnel Manager, (MSR/5),
Associated Electrical Industries (Manchester)
Limited,
Trafford Park, Manchester, 17.**

WORKS MANAGER

Applications are invited for the post of Works Manager within our Company. Applicants should be keen, conscientious and energetic types with the following qualifications.

- Recognised engineering apprenticeship.
- Experience in precision engineering.
- Experience in heat treatment of small tools.
- Some years' supervisory experience.
- Proved ability to plan and organise to meet increasing production requirements.
- Membership of an appropriate professional Institution or equivalent technical qualifications.

Salary according to qualifications and experience. Pension and Life Assurance Schemes. Good conditions. Pleasant district.

Please send full details of age, qualifications and experience in strictest confidence to: **The Works and Technical Director, Frank Guylee & Son Ltd., Millhouses, Sheffield, 8.**

EDUCATIONAL APPOINTMENTS

Bristol College of Science and Technology, Ashley Down, Bristol, 7.

Senior Lecturer in Production Engineering. The Governors invite applications for post of Senior Lecturer in Production Engineering. Applicants should be graduates or hold equivalent professional qualifications, and should have teaching, industrial and/or research experience. Successful applicant will be in charge of Production Engineering Section of a Department of Aeronautical and Mechanical Engineering. Duties will include teaching students taking Diploma in Technology courses in Aeronautical and Mechanical Engineering and Higher National Diploma and Higher National Certificate courses in Production Engineering. Research and consulting work is encouraged. Salary, according to experience and qualifications, within range £1,550 - £1,750 p.a. This scale is at present under review. Details and application forms from the Registrar. Please quote Ref. CST 61/13.

Northampton College of Advanced Technology, St. John Street, London, E.C.1.

Assistant Lecturer required for Department of Production Technology and Control Engineering to teach Production Methods and Processes to Diploma in Technology students. Applicants should have honours degree in engineering or science or a Diploma in Technology. Research and consulting work encouraged. This is a permanent, pensionable post in an expanding Department. Salary on Burnham Scale, minimum £850 rising to £1,320. Commencing rate dependent on qualifications and experience. Form and further particulars from the Secretary.

The University of Leeds, Leeds 2.

Domestic Bursar for Women's Hall. Salary on scale £570 × £25 - £720, less £120 for residence. Commencing salary determined by qualifications or experience. Further particulars from: The Warden, Lupton Hall, Wood Lane, Leeds, 6.

Hertfordshire County Council

HATFIELD TECHNICAL COLLEGE

Principal: Dr. W. A. J. Chapman, M.Sc.(Eng.),
M.I.Mech.E., M.I.Prod.E.

Applications are invited for the post of **LECTURER** to specialise in **WORK MEASUREMENT** for full-time Higher National Diploma studies and City and Guilds Work Study courses. Teaching of Work Study and/or Production Control would be expected from the successful applicant.

Salary: £1,370 × £35 × £40 - £1,550.

Application particulars from: The Registrar,
Hatfield Technical College.

CITY OF SHEFFIELD EDUCATION COMMITTEE COLLEGE OF TECHNOLOGY

Department of Engineering

Applications are invited for the following post, duties to commence as soon as possible.

SENIOR LECTURER IN THE ENGINEERING OF PRODUCTION to teach a selection from Machine Tools, Principles of Engineering Production, Metrology, Production Processes; to help in the development of the Higher National Diploma Sandwich course and with the Higher National Certificate Courses. Experience in the organisation of special courses of a post graduate character and in the promotion of research will be an advantage. Interest in the application of automatic control devices will be welcomed. There are Machine Tool and Metrology laboratories in the new buildings and additional laboratories are now being built.

Applicants should hold graduate qualifications with adequate experience in industry and in teaching. Corporate membership of a professional institution is highly desirable.

Salary: £1,550 × £50 - £1,750 per annum.

Application Forms obtainable with further particulars and a prospectus of the Department from the undersigned at P.O. Box 67, Sheffield, 1 (s.a.e.), should be returned within 14 days of the appearance of this advertisement.

T. H. TUNN,

Director of Education.

WARWICKSHIRE EDUCATION COMMITTEE RUGBY COLLEGE OF ENGINEERING TECHNOLOGY

(Principal: G. S. Atkinson, B.Sc., Ph.D.)

Department of Mechanical Engineering

The continued expansion of work associated with the Diploma in Technology sandwich courses at the College has created the following vacancies:

1. **Lecturer in Strength of Materials.** New Laboratories are being developed with ample facilities for professional advancement.
2. **Lecturer in Industrial Engineering.** The successful applicant will be expected to advise upon the establishment of adequate laboratories for the imaginative teaching of this subject to sandwich course students.

The salary range for Lecturers is £1,370 × £35 - £1,550. In approved cases, the starting salary may be above the minimum.

Applications for these posts are invited, and further details and application forms are obtainable from the Principal, Rugby College of Engineering Technology, Eastlands, Rugby, to whom forms should be returned as soon as possible.

N. A. Y. YORKE-LODGE, County Education Officer.

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